Sanitized Copy Approved for Release 2011/10/18 : CIA-RDP82-00457R001600390008-8 REPORT CONFIDENTIAL COUNTRY Germany (Russian Zone) DATE DISTR. 29 June 1948 50X1-HUM SUBJECT Status of Projects at the Oberspreamerk NO. OF PAGES during March 1948 PLACE ACQUIRED NO. OF ENCLS. DATE OF THEO SUPPLEMENT TO 50X1-HUM REPORT NO. THIS DOCUMENT CONTAINS INFORMATION AFFECTION THE RATIONAL DEFENSE
OF THE UNITED STATES WITHIN THE BEARING OF THE ESPIONAGE ACT SO
U.S. C., 31 AND 32. AS AMENDED. ITS TROMBINISHING ON THE REVELATION
OF ITS CONTENTS IN ANY MARKER TO AN URBUITHORIZED PERSON IS PROURBUILD TO THE CONTENT OF THE PROPERTY THIS IS UNEVALUATED INFORMATION FOR THE RESEARCH USE OF TRAINED INTELLIGENCE ANALYSTS 50X1-HUM 1. The emphasis at the Oberspreewerk is still on development and improvement rather than on large-scale manufacture. Considerable difficulty is being experienced in the procurement of raw materials. Production was hampered during March 1948 by a shortage of "Fernico", iron for deep drawing, fluorescent material for television tubes. flawless copper plate, and pumps and machinery. 50X1-HUM 2. The status of work in Department la (development of receiver and amplifier tubes) was as follows in March: Plan #33 Six-centimeter triode The first tubes were expected in April. Plan #34 LD 6 The first tubes were to be produced in April. One testing transmitter was available and another was in the process of construction. Plan #55 Capacity-balancing apparatus (Kapazitätsabgleichapparatur) Experimental work was finished and construction was under way. Measuring bench for thermal grid currents Plan #57 Wiring work was 90% completed in March. Plan #66 Tunable transmitter, 3 - 12 cm. Preliminary experiments with LD 12 were undertaken. Plan #04 Emission-measuring bench Being tested.

Plan #03 Feeler device (Tastgerät) 5 D 21 Completed.

L V 3 Tools were to be ready by the beginning of April.

CLASSIFICATION SECRET CONTROL-U.S. OFFICIALS ONLY

STATE X NAVY X NSRB DISTRIBUTION

ARMY X AIR X RDB X

8







Sanitized Copy Approved for Release 2011/10/18: CIA-RDP82-00457R001600390008-8

SECRETARIOL U.S. OFFICIALS ONLY

50X1-HUM

CENTRAL INTELLIGENCE AGENCY

--2--

Will Time

5 D 21 Triangular cathode
Three tubes with faulty cathodes were produced. The
emission and the adhesive quality of the cathode
paste were poor.

LG 11 Nine tubes were pumped void of air; of these, three were not air-tight, one had weak emission, two were poorly insulated, the filament of one burned out, and two were not yet tested as of March 1948. Fourteen more tubes were ready for the evacuation of air.

Eight-cavity (or slot) magnetron
Construction work was under way and test models had been tried out.

Flicker diode (Rauschdiode): 3 cm.
No work begun as of March 1948.

3. Status of work in Department 111 (tube development):

Plan #33 Six-centimeter tricde
One test model had been produced, but its ceramic parts
were not air-tight. Other models were shortly to be
completed. Difficulties had arisen in the production
of filaments.

Plan #34 ID 6 - 20 cm. Five assemblies were delivered and others were on the way.

Plan #55 Capacity-balancing apparatus (Kapazitätsabglei.chapparatur) Construction was under way.

Plan #66 Tunable transmitter: 3 - 12 cm.
Preliminary experiments with ID 12 were undertaken.

Plan #04 Emission-measuring bench
Assembly has been completed; testing was held up because
of the breakdown of the impulse generator.

Plan #03 Feeler device (Tastgerat) 5 D 21 Completed.

5 D 21 Triangular cathode
Eight tubes were prepared but were found to be faulty
because the grids had not been properly cleaned. Further
difficulties were encountered in the poor adhesive
quality of the cathode paste.

Plan #06 IG 11
Fourteen usable tubes were constructed and more tubes were in the process of manufacture. Four tubes were delivered to Dr. Schöller so that he might use them to improve his testing apparatus.

Plan #09 Metal ceramic bolometer
Sixteen units were delivered for soldering; 500 heads
were in the process of construction. The first bolometer
was expected to be ready for operation in March 1948.

SECRET CONTROL U.S, OFFICIALS ONLY

SECRET

Sanitized Copy Approved for Release 2011/10/18: CIA-RDP82-00457R001600390008-8

SICE TRAINED

50X1-HUM

CENTRAL INTELLIGENCE AGENCY

--3<sub>--</sub>

Plan #73-1-2 Flicker diode (Rauschdiede): 10 cm.

Experiments were conducted with directly-heated cathodes. One diode with this type of cathode was put into production. Devices effecting the heating of cathodes indirectly had not yet been delivered from the laboratory. Theoretical studies of the speed of the electrons passing through the

apparatus were in progress.

Plan #73-2-2 F1

Flicker diode (Rauschdiode): 3 cm. No work undertaken as of March 1948.

Plan #07

Eight-cavity magnetron
The first tubes were expected to be completed by

the end of May 1948.

SECRET CONTROL U.S. OFFICIALS ONLY

**SECRET**